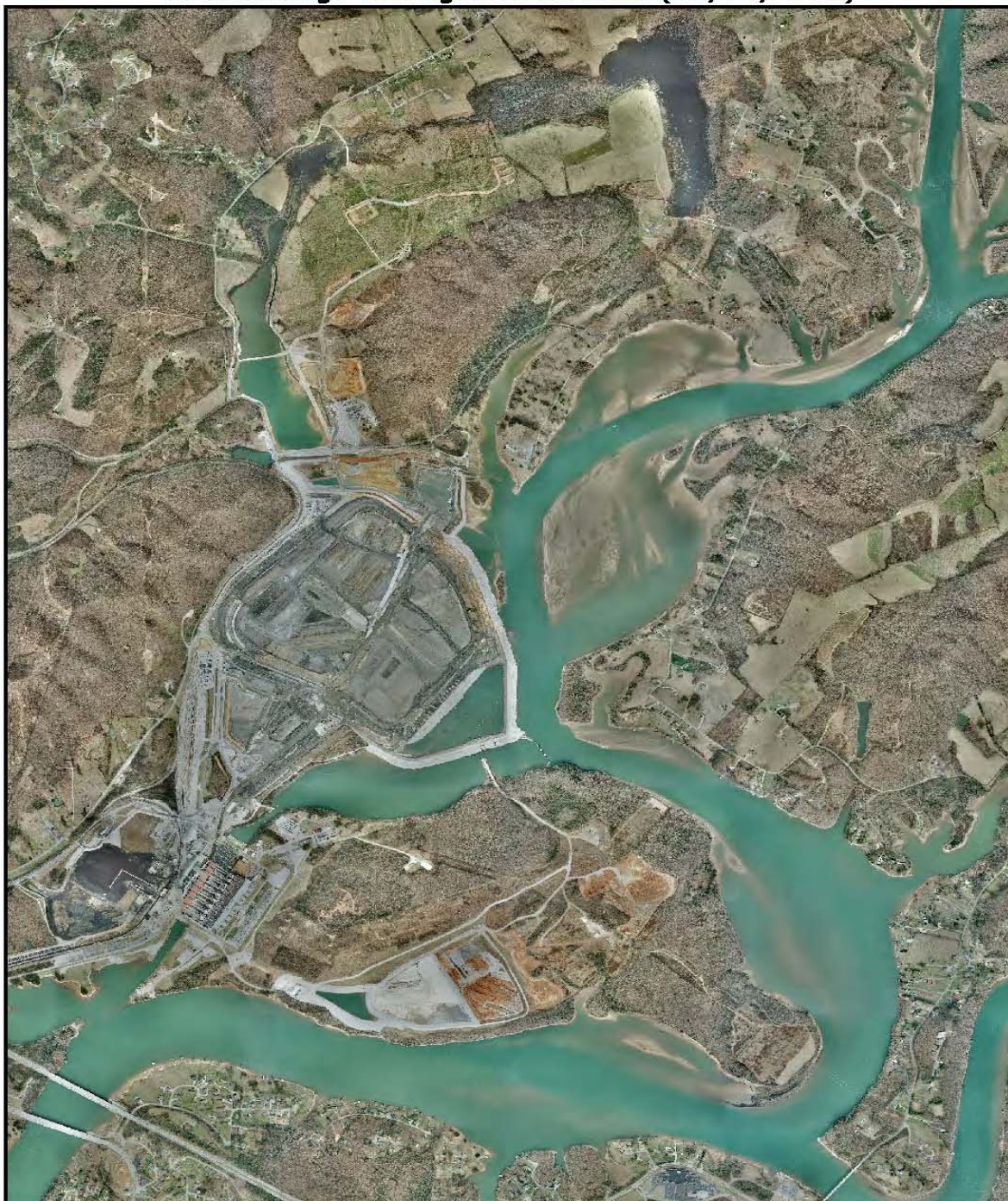


KINGSTON RECOVERY PROGRAM MANAGEMENT SITE MONTHLY REPORT

March, 2013

Aerial Image of Kingston Ash Slide (03/04/2013)



Filename: ImageOnly_20130704_8x11

0 1,000 2,000 3,000 4,000
Feet

Date of imagery: 03/04/2013

Tennessee Valley Authority
Realty, GIS & Land Records

KINGSTON RECOVERY PROGRAM MANAGEMENT SITE

MONTHLY REPORT

March, 2013

SAFETY

- Twenty individuals attended site-specific Health, Safety and Environment (HSE) orientations during March, 2013 – 2,332 project-to-date. Zero site-specific refresher courses were conducted during the month of March, 2013 - 435 project-to-date.
- Sixty-four (64) Safety Observation Reports (SORs) were submitted during March, 2013 – 3,868 year-to-date; 3866 are closed.
- A team from the Oak Ridge office consisting of Sean Healey, Bill Spader, Charlie Rives, and Ron Tatman conducted a Safety Evaluation Report (SER) on March 25-26, 2013. No observations requiring immediate action were observed during the assessment.
- On March 25, 2013 at approximately 10:30 am, an over-the-road 18-wheel truck with box trailer was exiting Lakeshore Drive heading northbound after delivering a load of mulch to Phillips and Jordan (P&J), a TVA-controlled contractor for Phase 1 of the Embayment Restoration Project. The passenger side upper corner of the box truck snagged a residential overhead phone line drop which ran perpendicular to the road the truck was traveling. The driver did not immediately recognize he had hung the line and prior to the cable breaking, the adjacent power pole (the residential drop was connected to), broke at the base of the pole. The driver stopped when he realized he had snagged the line. The Construction Manager (CM) and P&J management blocked the roadway and called the local utilities for response. The team also notified the resident of the hazard of the damaged pole (which was being held up by the primary power lines) and notified the appropriate project personnel. The local utility for power responded to the site and replaced the pole as well as the power line drop to the residential home. The phone company had also been notified and has responded to the location to restore the home line drop.
- On March 25, 2013 at approximately 1:25 pm, an SCS / GUBMK labor foreman was backing a pick-up truck out of the SAP decon tent. The individual was looking over their left shoulder to ensure they were clear to back. As the individual backed to the left, the right front bumper of the truck struck the frame of the SAP decon tent roll up door. The driver stopped immediately and notified her supervisor. The contact resulted in a minor dent to the truck bumper and the metal frame of the roll up door. The driver was D&A tested at the on-site clinic. No injuries resulted from the event.

INFRASTRUCTURE / ASH MANAGEMENT

- Efforts for site maintenance, dust control, and HAZWOPER control continued.
- Continued recovering cenospheres from the onsite ponds.
- Continued borrow excavation.
- Started Kingston Entrance Restoration project.

ASH SLURRY AND POND TOTAL SUSPENDED SOLIDS (TSS) CONTROL

- Daily total suspended solids (TSS) sampling and pH monitoring were performed throughout the ash slurry system. The TSS of the Main Ash Pond effluent (Agri-Drain outlet) averaged 150.1 mg/L and the Stilling Pond effluent averaged 15.6 mg/L for March, 2013.
- The Ash Pond effluent polymer addition (Agri-Drain location) rates were adjusted based on TSS levels during March, 2013. Ascetic acid was applied to control pH in the Stilling Pond.
- The plant began March, 2013 with 9 units online and ended with 7 units operating.
- Bottom ash was dipped during March, 2013 from the Sluice Trench.

PLANT ASH STORAGE / INTERIM ASH STORAGE AREA (BALLFIELD)

- Trans-Ash placed and compacted dry fly ash during March, 2013.
- Geosyntec provided Quality Control and Assurance during March, 2013 for the IASA.
- The Kingston Fossil Plant (KIF) operated from 3 to 9 units during March, 2013 - average of 6.13.

CENOSPHERE CONTROL ACTIVITIES

- Daily pond inspections were performed for all ponds.
- Collection of cenospheres by hydro-vacuum truck was not carried out in March, 2013. Cenosphere removal is scheduled for multiple days in March, 2013.

ROUTINE MONITORING

Surface Water Sampling

- Continued routine surface water monitoring. All monthly Stilling Pond results received to-date have shown compliance with the outfall National Pollutant Discharge Elimination System (NPDES) permit.
- There were rainfall events on March 5, 11, 18, and 24, 2013 that triggered storm flow sampling in Swan Pond Embayment.
- Automated monitoring stations (Hydrolabs) are online continuously monitoring surface water conditions at 6 locations; one in the Middle Embayment Settling Basin, two in the Clean Water Ditch (east and west), one at the Ash Pond Agri-Drains, and two in the Stilling Pond.
- Continued daily TSS monitoring at the Ash Pond Agri-Drains and Stilling Pond.

Air Sampling

- Air monitoring results for March, 2013 from the PM2.5 TVA air samplers were below the current Ambient Air Monitoring Plan (AAMP) action levels with the following exception. The ambient air PM2.5 24-hour average from a continuous ambient air monitor located south of the site perimeter equaled or exceeded the KRP AAMP action limit and Daily National Ambient limit on Sunday March 31, 2013. No work activities occurred on the KRP site during this time period. Site investigation of PS09 BAM found 2 smoldering piles of leaves and construction lumber within 20 feet of the BAM station. No other station showed increased PM2.5 levels during this time period. The investigation indicates that activities at the site did not contribute to the PM2.5 level at the site perimeter, and no adjustments to those activities or dust control measures are required.

Biota Sampling

- Continued monitoring bird boxes for 2013 tree swallow season.

Data Management

- Provided monthly surface water and air monitoring results to the U.S. Environmental Protection Agency (EPA).

Non-Routine Sampling

- Continued sample collection and on-site moisture testing in support of Dredge Cell and Ballfield operations.
- Continued confirmation sampling support for Middle Embayment ash removal.
- Continued spoils runoff sampling from the two tanks of spoils material associated with the Perimeter Wall Stabilization (PWS) project.
- Collected used oil samples from two Geo-Con drums for waste profile analyses.

DREDGE CELL

- Ash stacking continued next to Segment 1 of the PWS as weather permitted, with material coming predominantly from the Relic area.
- SCS resumed construction of the perimeter berm (sand / clay borrow) on the southwestern arm of Segment 1.
- Mt. Carmel discontinued lime treatment operations in late March, 2013 and SCS removed the lime treatment "boxes".
- SCS continued preparing the working platform for PWS Segment 5 by placing rock on the outboard haul road and preparing a spoils containment area.
- Geo-Con began PWS construction with one rig operating on Segment 6 and one rig on Segment 5.
- Griffin continued operating the deep wells and began operating the inboard row of shallow well points for dewatering of Segment 6.
- Griffin continued installing an inboard row of shallow well points for Segment 5.
- S&ME returned to Segment 7 with one rig to drill cold joint jet grout columns for strength determinations.

LATERAL EXPANSION

- Ash stacking was deferred to the Dredge Cell.
- Geo-Con completed construction of the PWS in Segments 3 and 4. One rig was moved temporarily to Segment 2 to complete repairs of wall panels and then moved to Segment 5. The other rig was moved to Segment 6.
- Geo-Con began predrilling for jet grouting of defect repairs in Segment 2
- Griffin discontinued the outboard row of wells, but continued to operate the inboard row of wells for the dewatering system in Segment 4.
- S&ME continued coring in Segment 2.

RIVER SYSTEM RESTORATION

- EPA approved the Removal Action Work Plan (RAWP) for the River System on March 6, 2013; final document was issued.
- Continued preparation of the full Long-Term Monitoring Plan. Expect delivery for regulatory review in early April, 2013.

EMBAYMENT RESTORATION AND RECREATION AREA DEVELOPMENT

- Continued design efforts for the revisions to the boat ramp in the Lakeshore Recreation area.
- Continued design efforts for the recreation and restoration features for the Berkshire and Borrow areas.
- Began trail construction for Lakeshore Phase 1.
- The design team held the first meeting with Roane County for the Berkshire Ballfield design effort. A follow up meeting is planned for May, 2013.

MIDDLE EMBAYMENT

- Ash removal from the Middle Embayment was carried out during March, 2013.
- Weekly Middle Embayment status reports were submitted.
- Daily inspections and sampling were carried out when excavation depths reached the ash to native sediment contract.
- The Clean Water Ditch was dammed off and pumped around the eastern section of the Middle Embayment. This action allowed cleaning of ash adjacent to the Clean Water Ditch.
- Bulk ash recovery from the Middle Embayment was completed on March 27, 2013. Remaining ash and rock recovery is associated with the T-2 dike and sediment pond.

OUTREACH / COMMUNICATIONS

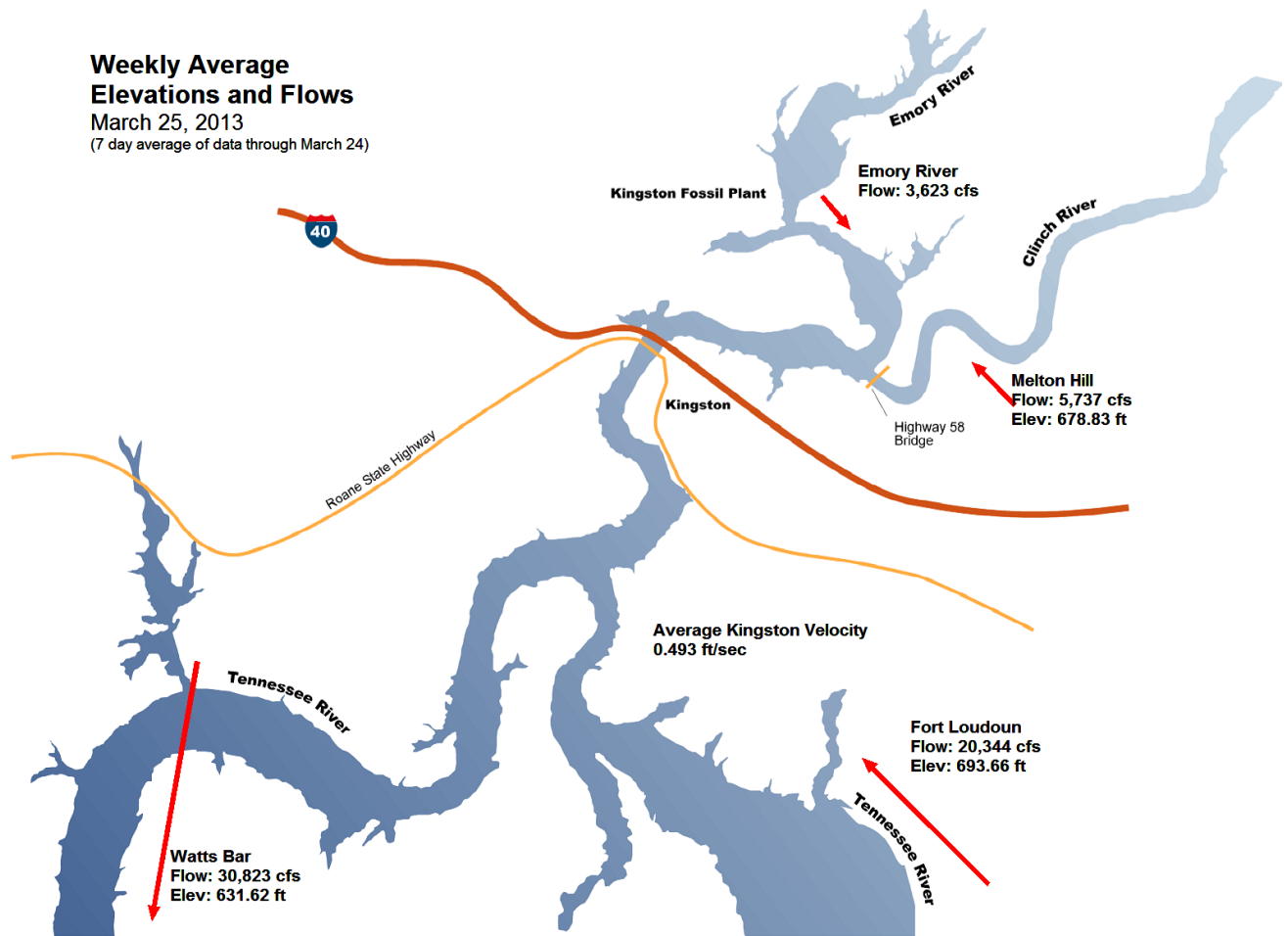
- Added weekly area resident updates to Kingston Ash Recovery (KRP) website.
- Sent weekly updates to the Community Advisory Group (CAG), public officials and members of the public who have signed up to receive weekly emails.
- Compiled information from a questionnaire that was distributed to local residents as part of the Community Involvement Plan.
- Met with CAG to provide an update on the project.
- Updated administrative records with work plans and relevant documents.
- Continued to respond to calls from residents.
- Updated site bulletin boards.

RIVER OPERATIONS

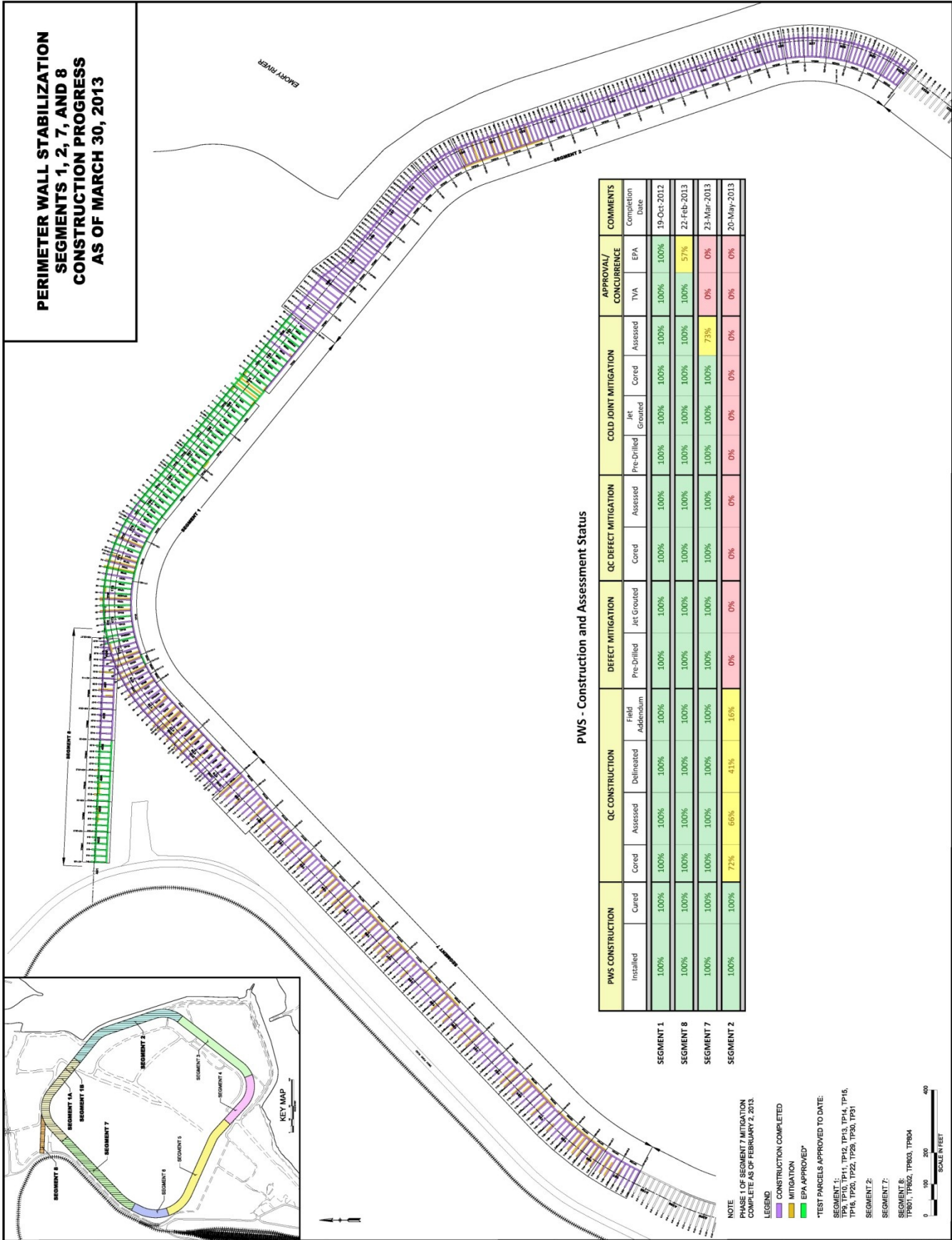
Weekly Average Elevations and Flows

March 25, 2013

(7 day average of data through March 24)



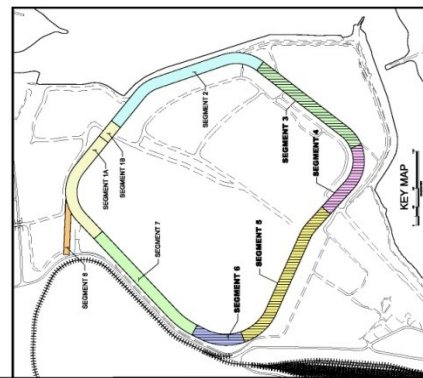
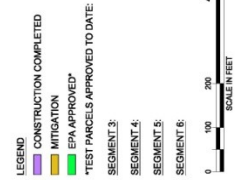
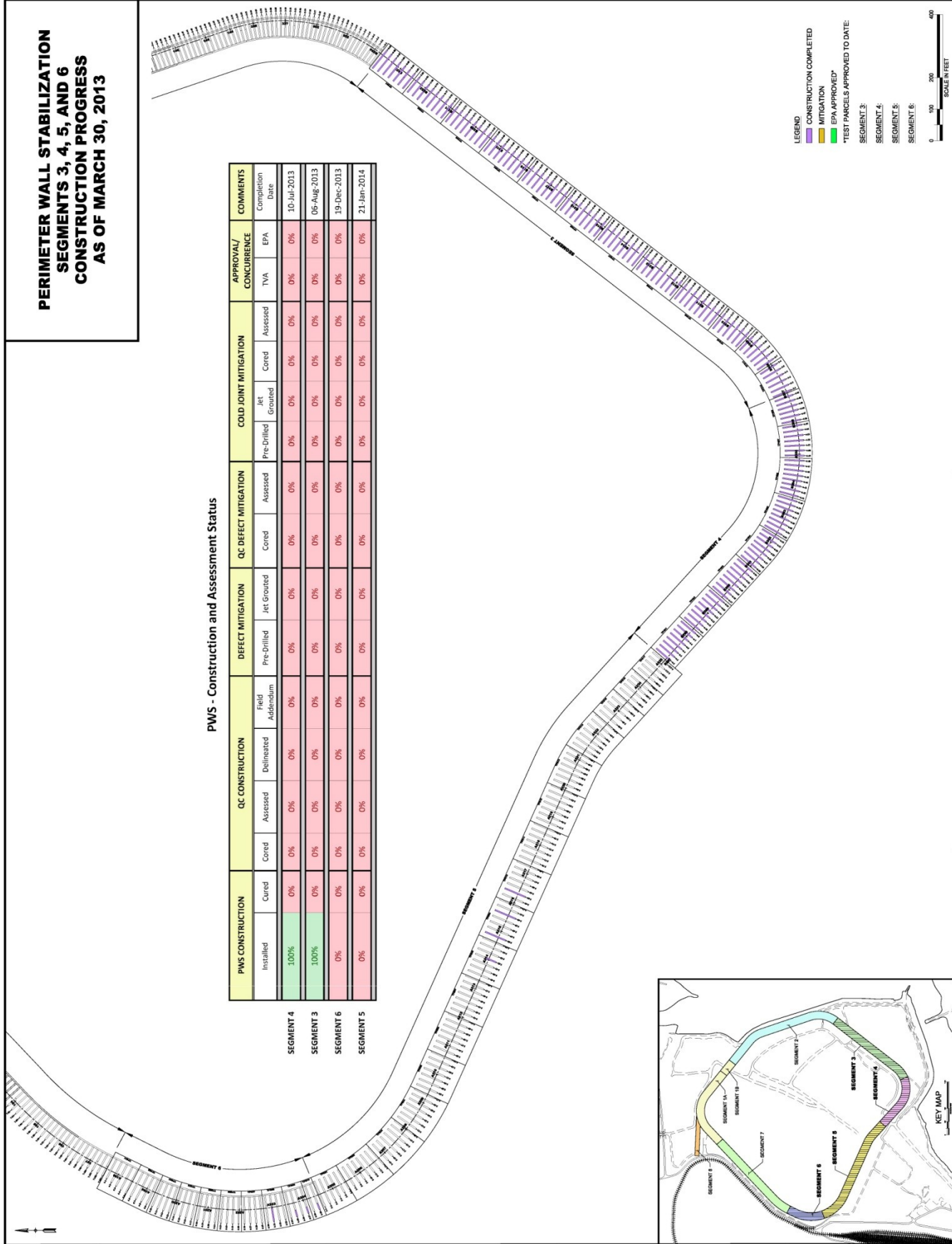
**PERIMETER WALL STABILIZATION
SEGMENTS 1, 2, 7, AND 8
CONSTRUCTION PROGRESS
AS OF MARCH 30, 2013**



**PERIMETER WALL STABILIZATION
SEGMENTS 3, 4, 5, AND 6
CONSTRUCTION PROGRESS
AS OF MARCH 30, 2013**

PWS - Construction and Assessment Status

	PWS CONSTRUCTION				QC CONSTRUCTION				DEFECT MITIGATION				COLD JOINT MITIGATION				APPROVAL/ CONCURRENCE		COMMENTS
	Installed	Cured	Cored	Assessed	Delineated	Field Addendum	Pre-Drilled	Jet Grouted	Cored	Assessed	Pre-Drilled	Jet Grouted	Pre-Drilled	Jet Grouted	Cored	Assessed	TVA	EPA	
SEGMENT 4	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	10-Jul-2013
SEGMENT 3	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	06-Aug-2013
SEGMENT 6	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	19-Dec-2013
SEGMENT 5	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	21-Jan-2014

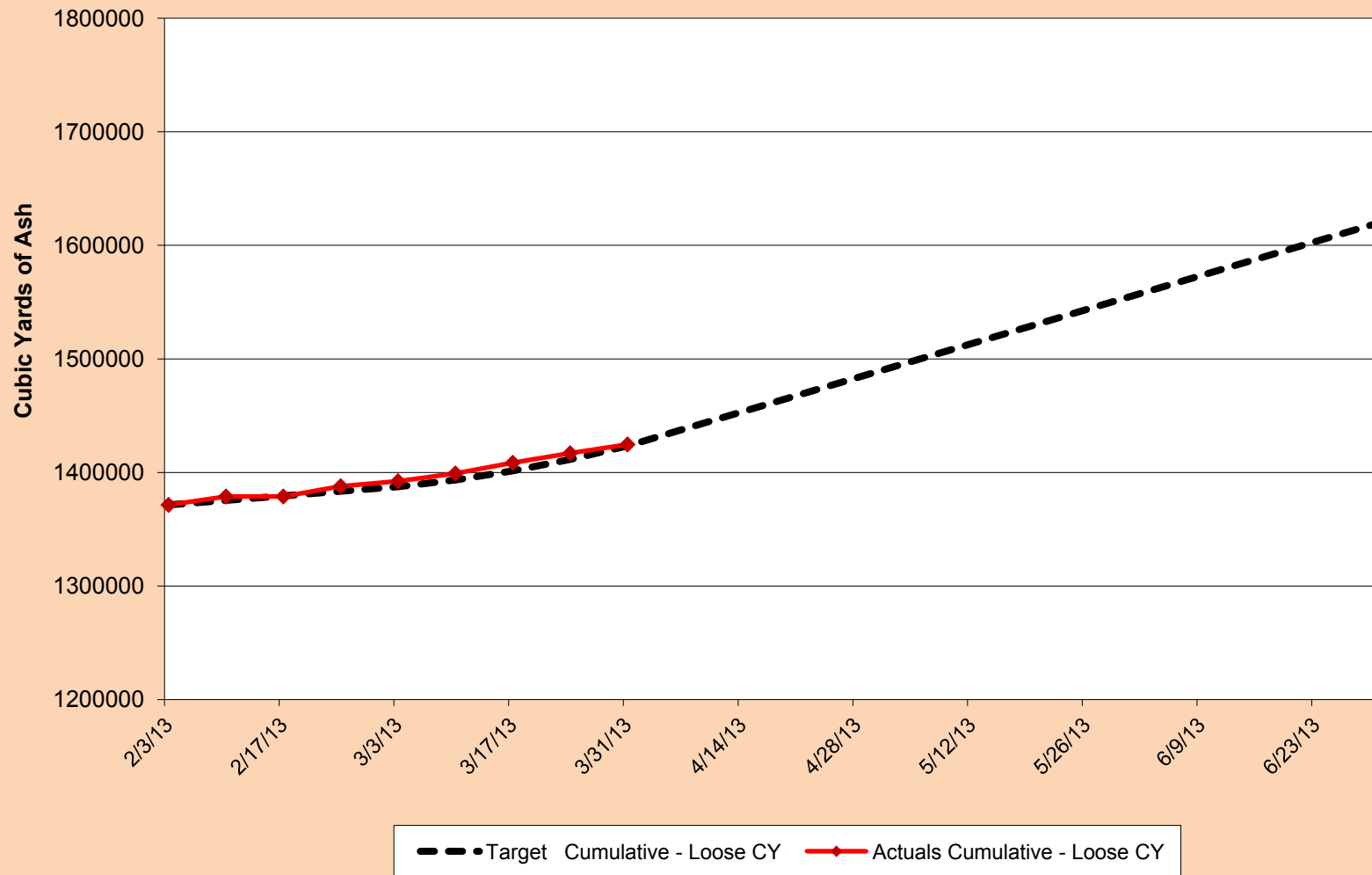


Kingston Recovery Program Management Site - March, 2013 - Field Report				
Safety		Monthly Total	FY – Cumulative Total	
Near Misses		0	0	
First Aid Incidents		0	6	
Recordable Incidents		0	1	
Recordable Lost Time Incidents		0	0	
Environmental	Matrix	Samples	Analyses	Results
Organization - TVA	Surface / Utility Water	5,828	48,651	243,712
Organization - TVA	Groundwater (Spring & Well)	262	2,778	13,525
Organization - TVA	Ash	763	1,290	9,506
Organization - TVA	Soil / Sediment	3,784	6,027	36,524
Organization - TVA	Biota	5,549	13,499	141,007

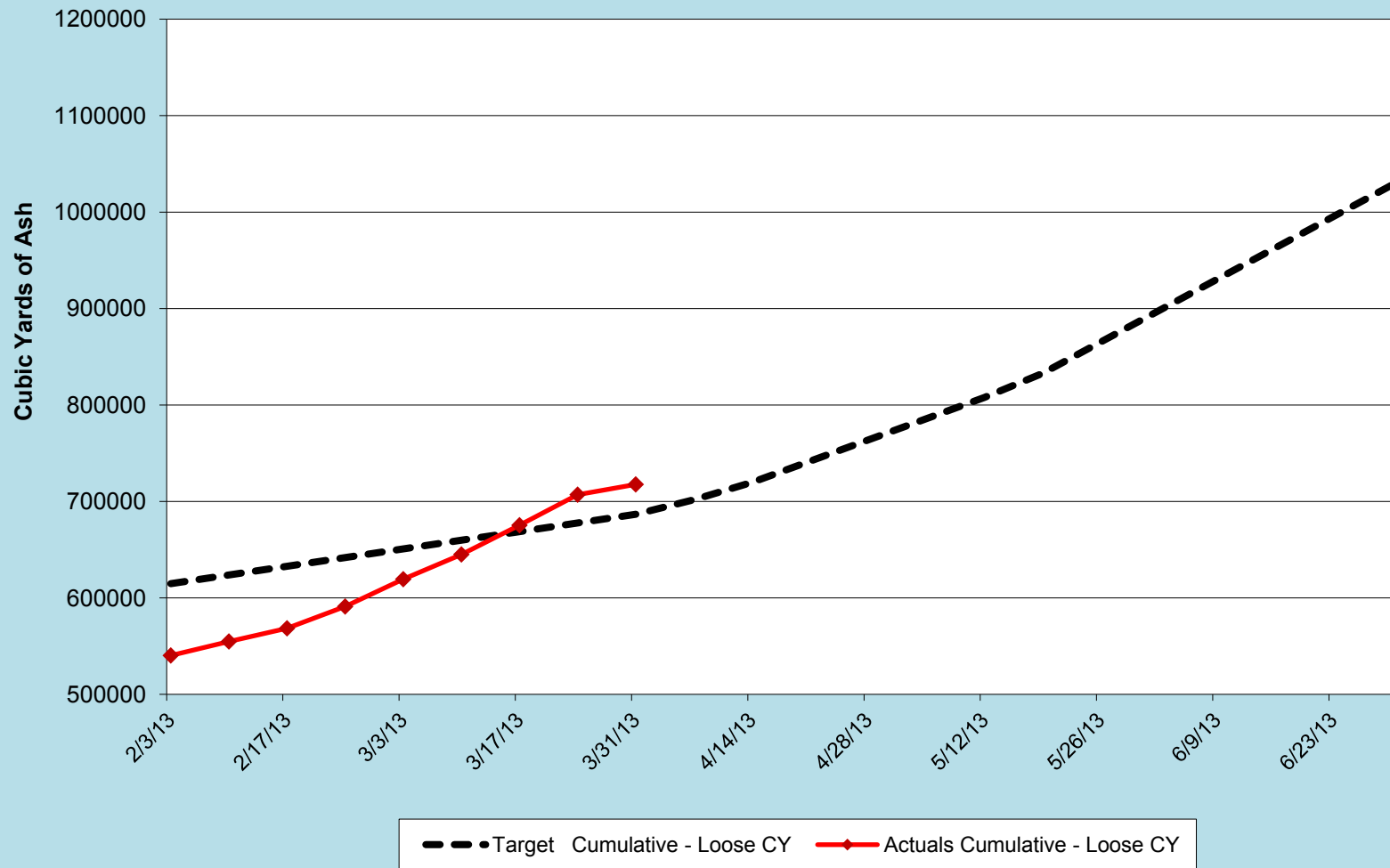
Work Description	Period Work Performed (CYIP)	PTD Work Performed (CYIP)
Ash Removal / Excavation		
Total Removed from Middle Embayment	19,342	1,016,864
Total Removed from North Embayment	-	1,010,322
Total Removed from Settling Basins / Dike 2	5,573	59,162
Total Removed from Swan Pond Road Corridor	-	858
Excavated Total	24,914	2,087,205
Work Description	Period Work Performed (CCY)	PTD Work Performed (CCY)
Placement		
Total Placed in Dredge Cell	60,121	1,459,286
Total Placed in Lateral Expansion	11,855	636,244
Total Placed in Ash Pond	17,873	412,053
Total Placed in Stilling Pond	-	17,641
Placed Total	89,848	2,507,584
Work Description	Period Work Performed (CCY)	PTD Work Performed (CCY)
Storage Handling		
Total Removed from Lateral Expansion	-	54,446
Total Removed from Dredge Cell	85,789	947,284
Total Removed from Ballfield	2,379	487,805
Removed from Storage Total	88,168	1,489,534
Net Removed to(from) Ballfield Storage	(230)	(146,582)

For period ending March 31, 2013.

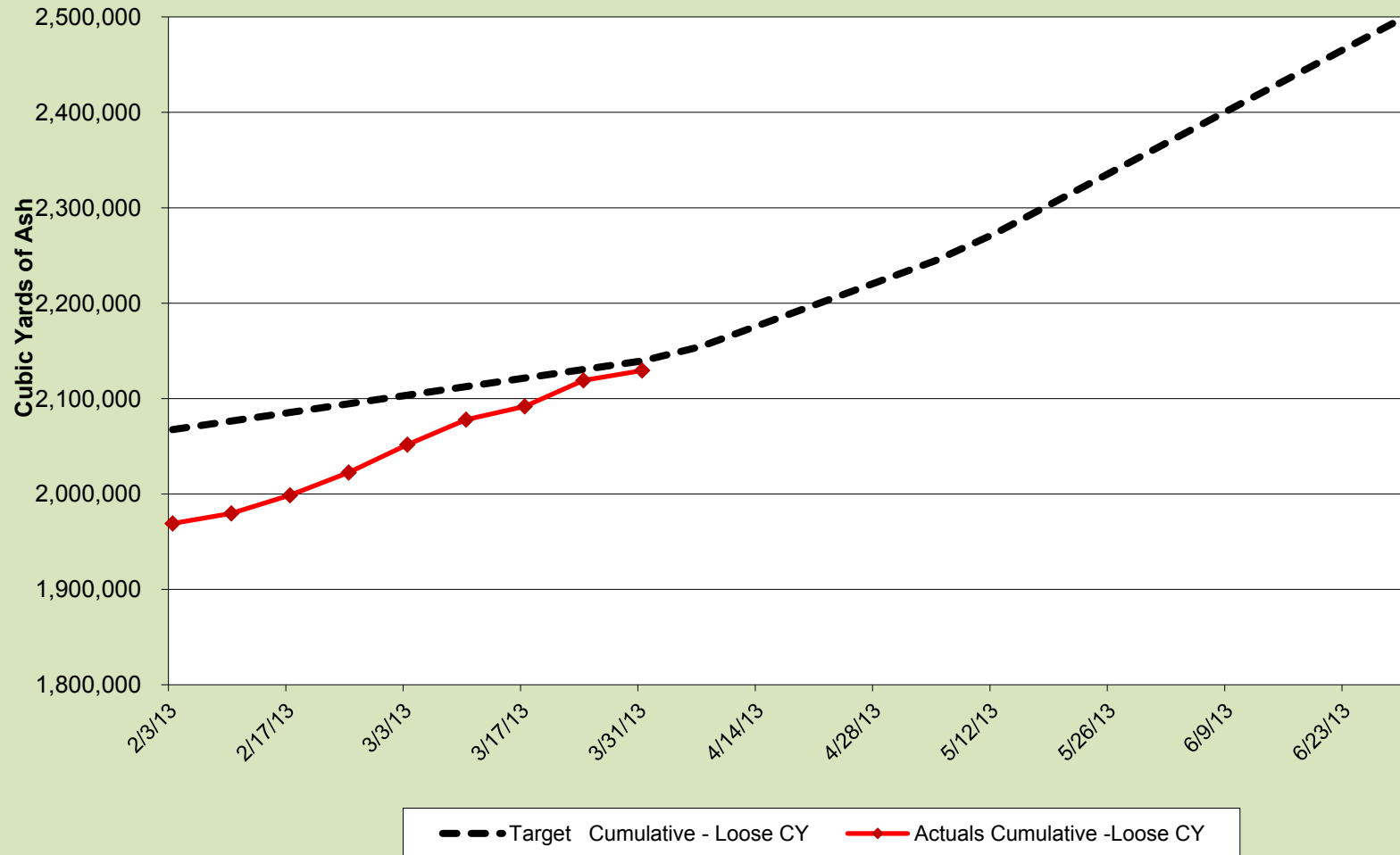
Ash Excavation from Middle Embayment Weekly as of March 31, 2013



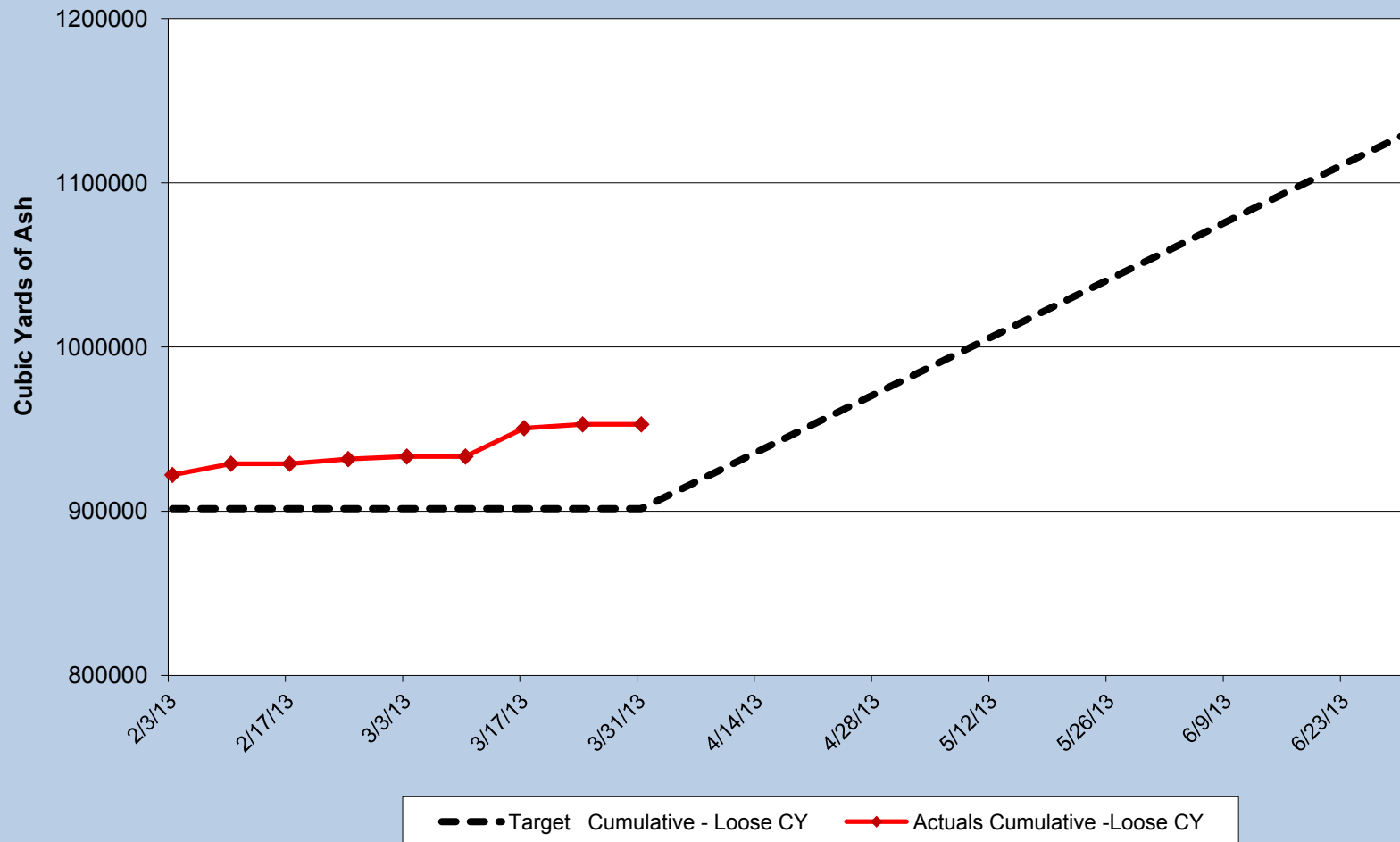
Ash Excavation from Dredge Cell Relic Weekly as of March 31, 2013



Ash Stacking in Dredge Cell Weekly as of March 31, 2013



**Ash Stacking in Lateral Expansion
Weekly as of March 31, 2013**



**Perimeter Wall Stabilization Segments 5 and 6
Weekly as of March 31, 2013**

